Docket No. SMITTAL OF APPEAL BRIEF (Small Entity) 131523-0002 In Re Application Of: Chia Mu SHAO Customer No. Group Art Unit Filing Date Examiner Confirmation No. Application No. 35684 **Christina Marks** 3713 6372 09/973,285 October 9, 2001 Invention: **ELECTRONIC DART GAME COMMISSIONER FOR PATENTS:** Transmitted herewith is the Appeal Brief in this application, with respect to the Notice of Appeal filed on: November 5, 2007 Applicant claims small entity status. See 37 CFR 1.27 \boxtimes The fee for filing this Appeal Brief is: \$255.00 ☐ A check in the amount of the fee is enclosed. The Director has already been authorized to charge fees in this application to a Deposit Account. The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 12-2136 I have enclosed a duplicate copy of this sheet. ☐ Payment by credit card. Form PTO-2038 is attached. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Signature

Dated: January 7, 2008

Michael S. Gzybowski

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January 7, 2008

(Date)

Michael S. Gzybowski

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CC:

TRANSMITTAL LETTER Docket No. 131523-0002 (General - Patent Pending) In Re Applica Chia Mu SHAO Filing Date Customer No. Group Art Unit Confirmation No. Examiner Application No. Christina Marks 35684 3713 6372 09/973,285 October 9, 2001 Title: **ELECTRONIC DART GAME COMMISSIONER FOR PATENTS:** Transmitted herewith is: Transmittal of Appeal Brief Brief on Appeal (one original and two copies with evidence attachments) Fee transmittal **Return Receipt Postcard** in the above identified application. No additional fee is required. A check in the amount of is attached. The Director is hereby authorized to charge and credit Deposit Account No. as described below. Charge the amount of \$255.00 \boxtimes

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decree Paperwork Redection Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.									
Fees pursuant to the Consolidated Appropriatons Act, 2005 (H.R. 4818).									
				Application Number	09/973	09/973,285			
FEE TRANSMITTAL			Filing Date	Octob	October 9, 2001				
For FY 2008			First Named Inventor	Chia N	Mu SHAO				
				Examiner Name	CHris	tina Marks			
Applicant claims small entity status. See 37 CFR 1.27			Art Unit	3713					
TOTAL AMOUNT OF PA	YMENT	(\$) \$2:	55.00	Attorney Docket No.	13152	3-0002	<i>_</i>		
METHOD OF PAYMENT	(check all	that apply)							
☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):									
Deposit Account Deposit Account Number: 12-2136 Deposit Account Name: BUTZEL LONG									
For the above-identified de	For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)								
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FEE CALCULATION									
1. BASIC FILING, SEARC	H, AND EX	AMINATION FE	ES						
	FILING F		SEAR	CH FEES	EXAMIN	ATION FEES			
Application Type	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fees Paid(\$)		
Utility	310	155	510	255	210	105			
Design	210	105	100	50	130	65			
Plant	210	105	310	155	160	80			
Reissue	310	155	510	255	620	310			
Provisional	210	105	0	0	0	0			
2. EXCESS CLAIM FEES							S		
Fee Description						Fee (\$)	Small Entity Fee (\$)		
Each claim over 20 (includ	ing Reissue	es)				50	25		
Each independent claim over	er3 (includ	ling Reissues)				210	105		
Multiple dependent claims						370	185		
Tatal Olalma	5 Ol-i	- F (A)		For Boid (#)			ependent Claims		
<u>Total Claims</u> - 20 or HP =	Extra Claim		0.00_ :	<u>Fee Paid (\$)</u> =\$0.00		<u>Fee (\$)</u>	Fee Paid (\$)		
HP = highest number of total cla	aims paid for.								
Indep. Claims - 3 or HP =	Extra Claim	-		Fee Paid (\$) = \$0.00					
HP = highest number of independent claims paid for, if greater than 3. 3. APPLICATION SIZE FEE									
3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$260 (\$130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
Total Sheets	Extra She		nber of e	each additional 50 or frac	ion there	of <u>Fee (\$)</u>	Fee Paid (\$)		
- 100 =	0	/ 50	0	(round up to a wh	ole num	ber) x <u>\$260.00</u>	=\$0.00_		
4. OTHER FEE(S) Fee Paid (\$)									
Non-English specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge): Transmittal of Appeal Brief \$255.00									

SUBMITTED BY	AM A NA			
Signature	Milalo	Registration No. (Attorney/Agent) 32,816	Telephone	734-995-3110
Name (Print/Type)	Michael S.	Date	January 7, 2008	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group

Art Ûnit:

3713

Attorney

Docket No.:

131523-0002 (New)

Applicant:

Chia Mu SHAO

Invention:

ELECTRONIC DART GAME

Serial No:

09/973,285

Filed:

October 9, 2001

Examiner:

Christina Marks.

Certificate Under 37 CFR 1.8(a)

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n January 7, 2007

Michael S. Gzybowski

BRIEF ON APPEAL

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Further to Appellant's Notice of Appeal filed November 5, 2007 in connection with the above-identified application, Appellant resubmits the present Brief on Appeal.

REAL PARTY IN INTEREST

Appellant has not assigned this application to any entity. Accordingly the real party in interest is appellant whose name is Chia Mu Shao.

RELATED APPEALS AND INTERFERENCES

There are no related cases involved in any appeal procedures or Interferences.

STATUS OF CLAIMS

Claims 1-11, 14 and 15 are pending in this application. Claims 1-11, 14 and 15 stand

under Final Rejection, from which rejection of claims 1-11, 14 and 15 this appeal is taken.

Claims 12 and 3 were canceled during the prosecution. There are not other claims in this

application.

STATUS OF AMENDMENTS

No Amendment(s) after Final was/were filed by appellants in this application.

SUMMARY OF CLAIMED SUBJECT MATTER

As set forth in independent claim 1, the present invention is directed to an electronic dart

game comprising:

a dart (130, Fig. 8, and page 7, lines 9-13);

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a dartboard (shown in Fig. 4 and in cross section in Figs. 5-7 and described on page 6, lines 1-4), provided with

a frame (100), formed of a plurality of scoring areas (102) by a plurality of radial spiders (106) and circumferential spiders (104) which are arranged crossly (page 6, lines 1-12);

a main body (110) receiving said dart (130), attached to said frame (110); and an electronic scoring means (shown in Prior Art Fig. 1) for displaying signals collected from said scoring areas (102);

a plurality of coreless inductance coils (120, shown in perspective in Fig. 4 and cross section in Figs. 5-7) with predetermined turns, provided with said frame (100) and connected to said electronic scoring means through cables (122, Fig. 4, page 6, lines 1-12);

said dart (130) is provided with a magnetic substance (page 7, lines 9-12);

each of said coreless inductance coils (120) is associated with a corresponding one of said scoring areas (102) and defines a scoring signal zone (Fig. 4, page 6, lines 1-5); and

a scoring signal is generated by said dart entering said scoring signal zone, said signal is transmitted to said electronic scoring means (Figs. 5-7, page 8, line 20 through page 9, line 6).

As set forth in independent claim 14 the present invention is directed to an electronic dart game comprising:

a dart (130, Fig. 8, and page 7, lines 9-13);

a dartboard (shown in Fig. 4 and in cross section in Figs. 5-7 and described on page 6, lines 1-4), provided with

a frame (100), formed of a plurality of scoring areas 102 by a plurality of radial spiders 106 and circumferential spiders 104 which are arranged crossly (page 6, lines 1-12);

a main body (110) for receiving said dart (130), attached to said frame (100); and an electronic scoring means (shown in Prior Art Fig. 1) for displaying signals collected from said scoring areas (102);

a plurality of coreless inductance coils (120, shown in perspective in Fig. 4 and cross section in Figs. 5-7) with predetermined turns, provided with said frame (100) and connected to said electronic scoring means through cables (122, Fig. 4, page 6, lines 1-12);

said dart (130) is provided with a magnetic substance (page 7, lines 9-12);

each of said coreless inductance coils (120) is associated with a corresponding one of said scoring means (102) and defines a scoring signal zone (Fig. 4, page 6, lines 1-5); and

a scoring signal is generated by said dart (130) moving through one of said coreless inductance coils (120), and said signal is transmitted to said electronic scoring means (Figs. 5-7, page 8, line 20 through page 9, line 6).

As set forth in independent claim 15 the present invention is directed to an electronic dart game comprising:

a dart (130, Fig. 8, and page 7, lines 9-13);

a dartboard (shown in Fig. 4 and in cross section in Figs. 5-7 and described on page 6, lines 1-4), provided with

a frame 100, formed of a plurality of scoring areas 102 by a plurality of radial spiders 106 and circumferential spiders 104 which are arranged crossly (page 6, lines 1-12);

a main body (110) for receiving said dart (130), attached to said frame (100); and

an electronic scoring means (shown in Prior Art Fig. 1) for displaying signals collected

from said scoring areas (102);

a plurality of coreless inductance coils (120, shown in perspective in Fig. 4 and cross

section in Figs. 5-7) with predetermined turns, provided with said frame (100) and connected to

said electronic scoring means through cables (122, Fig. 4, page 6, lines 1-12);

said dart (130) is provided with a magnetic substance (page 7, lines 9-12);

each of said coreless inductance coils (120) is associated with a corresponding one of said

scoring means (102) and defines a scoring signal zone (Fig. 4, page 6, lines 1-5); and

an electronic field is generated only when said dart (130) moves through said coreless

inductance coils (120), and said signal is transmitted to said electronic scoring means (Figs. 5-7,

page 8, line 20 through page 9, line 6).

GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

Whether claims 1-6, 8-11, 14 and 15 are properly rejected under 35 U.S.C. §103(a) as

being unpatentable over Fuscone et al.

Whether claim 7 is properly rejected under 35 U.S.C. §103(a) as being unpatentable over

Fuscone et al. in view of Clark.

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ARGUMENT

The rejection of claims 1-6, 8-11, 14 and 15 under 35 U.S.C. §103(a) as being unpatentable over Fuscone et al.

The Examiner has relied upon Fuscone et al. as disclosing:

...an electric dart game comprising a dart (Fig. 1), a dartboard provided with a frame of a plurality of scoring areas by a plurality of radial spiders and circumferential spiders which are arranged crossly (Fig. 2, 7 and 9), with a main body for receiving said dart and attached to said frame, and an electronic scoring means for displaying signals collected from the scoring areas (Fig. 5). Said scoring system uses a plurality of inductance coils (Fig. 1 and page 1, lines 125-129 connected to the electronic scoring system (Fig. 5). Fuscone discloses said dart is made of, thus provided with, a magnetic substance (page 1, lines 75-78, 103). Each of said coils is associated with a corresponding scoring area and thus defines a scoring signal zone (Fig. 2). When said dart is thrown at said dartboard, a scoring signal is generated by said dart entering said signal zone and is transmitted to said scoring system (page 2, lines 20-24, 66-82).

"Regarding the limitation that the induction coil be coreless," the Examiner states:

...the purpose of providing the iron core in the inductor is to <u>concentrate</u> the effect of any magnetic field within the center of the induction coil (within the iron cores). However, as is well known by one of ordinary skill in the art, an inductor is its simplest form is a conductive wire formed in the shape of a loop or coil, and will create the magnetic field inside the coil without the presence of the core.

The Examiner concludes:

Therefore, the inclusion of iron cores in the inductors disclosed by Fuscone is **not necessary**, as the inductor would still perform the necessary function of creating a magnetic field within the center of the induction coil with or without the iron core, albeit the magnetic field would not have been as concentrated as had the iron core been in place.

The Examiner further stated:

It the claims are given their broadest reasonable interpretation, the limitation of "a plurality of coreless induction coils with predetermined turns, provided with said frame and connected to said electronic scoring means", wherein "each of said coreless induction coils is associated with a corresponding on [sic] of said scoring areas and defines a scoring signal zone" is met by the invention disclosed by Fuscone, under the assertion that coreless induction coils is a matter of design choice and would have been obvious to one of ordinary skill in the art at the time of the invention.

The Examiner also stated:

One would have been motivated to remove the core from the induction coil for any application that requires a small amount of induction as in said dartboard to reduce the weight of the apparatus and lower manufacturing costs.

On page 6 of the Final Office Action, under the *Response to Arguments* section the Examiner states:

This argument of a magnetically insulating board necessitating the iron cores of Fuscone et al. is not persuasive, as Fuscone et al. specifically discloses that "ideally the full board depth should be made magnetically permeable" (P.4, lines 25-26). Thus, it is made clear by Fuscone et al. that the board does not act as an insulator which limits the capability of magnetic flux to penetrate and pass through the board, as alleged by P. 10 of applicant's Remarks.

The undersigned respectfully submits that the Examiner's position remains unsupported by the teachings of Fuscone et al.

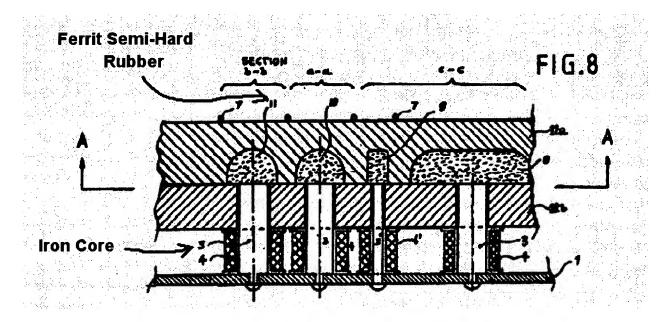
As the Examiner notes, at page 4, lines 25-26 Fuscone et al. teaches:

"Ideally the full board depth should be made magnetically permeable"

In the following lines, i.e., page 4, lines 26-38 Fuscone et al. teaches:

A simplified method is shown in Figures 7 and 8. The board consists of two plates, 12a and 12b, which are bonded together. The target board 12a has recesses 8, 9, 10, 1 (Figure 8 is a cross section, Figure 9 is view A-A) which exemplify the geometry to be applied to all the sections of the Board; into these recesses a ferrite semi-hard rubber or the like substance is placed. The reinforcement board 12b has holes allowing the prolonged cores 3 of the coils to protrude and to touch the magnetic rubber fillings.

Figure 8 of Fuscone et al. is provided as follows:



It is important to recognize that, as the Examiner has noted, Fuscone et al. does teach the "board does not act as an insulator which limits the capability of magnetic flux to penetrate and pass through the board" (Examiner's comments on page 7, lines 1-3 Final Office Action). However, Fuscone et al. teaches that in order to make the board magnetically permeable (in a "simplified" manner at that) it is necessary to embed "ferrite semi-hard rubber or the like substance" in the target board 12a and to extend the (i.e., prolong) the iron cores 3 "to touch the magnetic rubber fillings" as shown in Fig. 8.

In no case or example does Fuscone et al. teach or suggest eliminating the iron cores of

that the iron core that the Examiner has concluding are "not necessary."

The actual teachings of Fuscone et al. are opposite to, and do not support, the Examiner's

position, that the iron cores are "not necessary" and can be removed as a matter of "design

choice."

It is noted that MPEP § 2144.04 provides for aesthetic design changes and for the

rearrangement of parts as being "an obvious matter of design choice." (See also MPEP

§716.02(f))

This basis of "design choice" is not applicable in the present situation.

MPEP § 2144.04 also provides for the omission of an element and its function, but notes

that the applicability of this basis for obviousness is when the prior art provides a teaching that

the function of omitted element is not desired or not required.

This basis is not applicable in the present situation inasmuch as Fuscone et al. teaches

that the iron cores in the induction coils are required in the disclosed dartboard, and there are no

further prior art teachings that support the Examiner's position.

While the Examiner basis his position on the fact that Fuscone et al. teaches that the

board can be made magnetically permeable, Fuscone et al. actually teaches extending the iron

cores rather than eliminate them and further teaches (i.e. requires) incorporating recesses that are

filled with magnetic rubber filling.

It is accordingly submitted that Fuscone et al. teaches against, rather than supports the

Examiner's position (of removing the iron cores).

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Eliminating the iron cores goes directly against the teachings of Fuscone et al. and would

clearly degrade the functioning of Fuscone et al. as understood from the teachings of Fuscone et

al.

Under the holding of the Board of Patent Appeals and Interferences in Ex parte

Hartmann, 186 USPQ 366 (PTO Bd App 1974) such a modification would clearly be improper.

The Examiner's stated motivation - to reduce the weight of the apparatus and lower

manufacturing costs - does not compensate for the degradation to the functioning of Fuscone et

al, which would result in the proposed modification and does not justify the Examiner

proceeding against the clear teachings of Fuscone et al. in the total absence of any further

supporting prior art teaching.

In the Advisory Action mailed October 23, 2007 the Examiner references Gordon et al. as

analogous art that teaches that iron cores that may be "air wound or, to achieve a higher field,

would around a ferromagnetic core."

Gordon et al. is directed to an electro-mechanical detection system in the form of a mat

which detects being struck by baseballs, footballs, soccer balls, golf balls and similar balls – and

not designed, configured or intended to be used with projectiles that penetrate the mat.

The embodiment which the Examiner has relied upon is discussed at column 4, line 60

through column 5, line 3. This embodiment involves replacing magnetic strips 18 in the

embodiment of Figs. 4a-4c with electro magnets.

As described the embodiment of Figs. 4a-4c includes a layer of magnetic strips 18,

conductors 22 and wires 16.

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In operation, "the deflection of wires 16 in the magnetic field created by magnets 18

causes a small but discernable voltage to be created on wires 22 and 16." (column 4, lines 24-

26).

Gordon et al. teaches that the three planes (that include the magnets 18, conductors 22

and wires 16) are preferably separated by no more than 1/16 of an inch. These layers are made

from polymeric materials.

The substitution of the electro magnets with the strip magnets 18 seems to require

keeping the conductors 22 and wires 16 and the dimensions taught by Gordon et al. Likewise, it

appears that the function of the embodiment of the electro magnets would still require a physical

deflection as taught by Gordon et al.

The teachings of Gordon et al. are accordingly not a teaching of equivalents which is

related or at all applicable to dartboard which: 1) are not configured or designed to have layers

that deflect; 2) are relatively thicker that 3/16 of an inch (assuming three layers as taught by

Gordon et al.; and 3) are specifically made from materials that allow penetration by darts (e.g.

bristle boards).

The equivalents of strip magnets (together with conductors and wires) and electro

magnets, the wires and piezo elements of Gordon et al. do not translate to a teaching of

equivalents in the art of dartboards.

The Examiner has thus not found or relied upon a art-recognized teaching of equivalents.

The rejection of claim 7 under 35 U.S.C. §103(a)

as being unpatentable over Fuscone et al. in view of Clark.

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The Examiner has conceded that Fuscone et al. fails to teach that he wiring of the

plurality of coils corresponds to different scoring areas.

The Examiner has accordingly relied upon Clark as teaching a dartboard system that

"supports this concept."

The Examiner specifically states that Clark describes the motherboard used to control the

electronic scoring and as stating that connections must be connected to the same lines in order

for the total number of scoring positions on the dartboard to be accounted for.

The Examiner has taken the position that:

It would have been obvious....to limit the number of inputs required, inputs having the

same signal should be tied together into the same input line in order to conserve the number of

inputs needed into the motherboard.

Claim 7 requires that a plurality of said coreless coils correspond to different scoring

areas representing the same score are wired together before being connected to said electronic

scoring means.

Fuscone et al. teaches that a plurality of coils can be used in the same scoring areas as

shown in Fig. 2 (See ring areas "a," "b," and "d" which each contain two coils.

Thus, Fuscone et al. fails to teach that the plurality of coils correspond to different

scoring areas.

Further, it is submitted that the cited portion of Clark teaches that the "double target

segments for the 1, 8, 13 and 19 scoring radials are connected to the output line 6. This means

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that the areas representing different scores are wired together rather than areas representing the

same score in Clark.

CONCLUSION

For the reasons advanced above, Appellants respectfully contend that the rejection of

claims 1-6, 8-11, 14 and 15 as being unpatentable over Fuscone et al. under 35 U.S.C. §103(a) is

improper because the examiner has not met the burden of establishing a prima facie case of

obviousness of appellant's claimed invention.

Moreover, for the reasons advanced above, Appellants respectfully contend that the

an addatio

rejection of claim 7 as being unpatentable over Fuscone et al. in view of Clark under 35 U.S.C.

§103(a) is improper because the examiner has not met the burden of establishing a prima facie

case of obviousness of appellant's claimed invention.

Reversal of the rejections on appeal is respectfully requested.

To the extent necessary, a petition for an extension of time under 37 CFR §1.136 is

hereby made. Please charge the fees due in connection with the filing of this paper, including

-13-

extension of time fees, to Deposit Account No. 12-2136 and please credit any excess fees to such deposit account.

Respectfully submitted,

Michael S. Gzybowski

Reg. No. 32,816

BUTZEL LONG 350 South Main Street Suite 300

Ann Arbor, Michigan 48104 (734) 995-3110

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CLAIMS APPENDIX

Claim 1 An electronic dart game comprising:

a dart;

a dartboard, provided with

a frame, formed of a plurality of scoring areas by a plurality of radial spiders and circumferential spider which are arranged crossly;

a main body receiving said dart, attached to said frame; and

an electronic scoring means for displaying signals collected from said scoring areas;

a plurality of coreless inductance coils with predetermined turns, provided with said frame and connected to said electronic scoring means through cables;

said dart is provided with a magnetic substance;

each of said coreless inductance coils is associated with a corresponding one of said scoring areas and defines a scoring signal zone; and

a scoring signal is generated by said dart entering said scoring signal zone, said signal is transmitted to said electronic scoring means.

Claim 2 An electronic dart game according to claim 1, wherein said plurality of coreless inductance coils are provided with predetermined shape to be engaged with said scoring areas.

Claim 3 An electronic dart game according to claim 2, wherein cross-section of each turn

of said coreless inductance coil matches and is smaller than that of said scoring areas.

Claim 4 An electronic dart game according to claim 3, wherein said frame provided with

said coreless inductance coils is arranged in front of said main body.

Claim 5 An electronic dart game according to claim 3, wherein said frame provided with

said coreless inductance coils is arranged in back of said main body.

Claim 6 An electronic dart game according to claim 3, wherein said frame provided with

said coreless inductance coil is arranged in said main body.

Claim 7 An electronic dart game according to claim 3, wherein a plurality of said coreless

coils correspond to different scoring areas representing the same score, are wired together before

being connected to said electronic scoring means.

Claim 8 An electronic dart game according to claim 1, wherein a point of said dart is

provided with a magnetic substance.

Claim 9 An electronic dart game according to claim 8, wherein a slender shaft of said dart

is provided with a magnetic substance.

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Claim 10 An electronic dart game according to claim 9, wherein said point and slender shaft

of said dart are integrated and magnetized simultaneously.

Claim 11 An electronic dart game according to claim 1, wherein said main body of said

dartboard is made of bristle, natural fiber, synthetic fiber, plastic or combinations thereof.

Claims 12-13 (Canceled)

Claim 14 An electronic dart game comprising:

a dart;

a dartboard, provided with

a frame, formed of a plurality of scoring areas by a plurality of radial spiders and

circumferential spiders which are arranged crossly;

a main body for receiving said dart, attached to said frame; and

an electronic scoring means for displaying signals collected from said scoring areas;

a plurality of coreless inductance coils with predetermined turns, provided with said

frame and connected to said electronic scoring means through cables;

said dart is provided with a magnetic substance;

each of said coreless inductance coils is associated with a corresponding one of said

scoring means and defines a scoring signal zone; and

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a scoring signal is generated by said dart moving through one of said coreless inductance

coils, and said signal is transmitted to said electronic scoring means.

Claim 15 An electronic dart game comprising:

a dart:

a dartboard, provided with

a frame, formed of a plurality of scoring areas by a plurality of radial spiders and

circumferential spiders which are arranged crossly;

a main body for receiving said dart, attached to said frame; and

an electronic scoring means for displaying signals collected from said scoring areas;

a plurality of coreless inductance coils with predetermined turns, provided with said

frame and connected to said electronic scoring means through cables;

said dart is provided with a magnetic substance;

each of said coreless inductance coils is associated with a corresponding one of said

scoring means and defines a scoring signal zone; and

an electronic field is generated only when said dart moves through said coreless

inductance coils, and said signal is transmitted to said electronic scoring means.

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EVIDENCE APPENDIX

1. Ex parte Hartmann, 186 USPQ 366 (PTO Bd App 1974)

RELATED PROCEEDINGS APPENDIX

None

likelihood that the mark would "falsel suggest a connection with persons, living or dead, institutions, beliefs, or national symbols or bring them into contempt or disrepute". We cannot give the term "may" a broad and indefinite meaning so encompassing as to contravene the evidence presented.

[3] Since we find that the evidence presented is persuasive at this time that there is no reasonable likelihood of a false suggestion with a governmental institution or "national symbol", we conclude that the mark should be published in the Official Gazette in accordance with Section 12(a).

Decision

The refusal to register by the Examiner of Trademarks is reversed.

Patent and Trademark Office Board of Appeals

Ex parte Hartmann

Patent issued Nov. 12, 1974 Opinion dated Apr. 26, 1974

PATENTS

1. Words and phrases (§70.)

"Partial drawing" is intentional, positive act over and above any incidental elongation arising from handling of filaments.

2. Patentability — Invention — In general (§51.501)

Patentability — Anticipation - Combining references (§51.205)

References cannot properly be combined if effect would destroy invention on which one of reference patents is based.

3. Claims — Article defined by process of manufacture (§20.15)

Patentability — Subject matter for patent monopoly — Process, product, and apparatus (§51.613)

Product-by-process claim may be used if language is not vague and indefinite.

4. Board of Appeals — Procedure and practice (§19.45)

Patent and Trademark Office Board of Appeals will follow rulings of Court of Customs and Patent Appeals rather than inconsistent portions of Manual of Patent Examining Procedure.

Particular patents - Plastic Film

3,847,729 Hartmann, Deep-Drawable Plastic Composite Comprising Plastic Film on Fibrous Support, claims 1-3 and 5-12 allowed.

Appeal from Group 160.
Application for patent of Ludwig Hartman, Serial No. 3,129, filed January 15, 1970. From decision rejecting claims 1-3 and 5-12, applicant appeals (Appeal No. 141-93). Reversed; McKelvey, Acting Examiner in Chief concurring with opinion.

Johnston, Keil, Thompson & Shurtleff and Herbert B. Keil, both of Chicago, Ill., for applicant.

Before Schneider and Serota, Examiners in Chief, and McKelvey, Acting Examiner in Chief.

Schneider, Examiner in Chief.

This appeal is from the final rejection of claims 1, 2, 3, and 5 to 12. Claim 4 was withdrawn from further consideration as being directed to a nonelected invention.

Claims 1 and 9 are representative:

1. Deep-drawable composite comprising:

a) a plastic film of deepdrawable plastic,

b) a non-woven fleece consisting essentially of partially drawn and further drawable filaments which are drawable

c) said plastic film coating said fleece.

upon deep-drawing of the plastic

9. Deep-drawable composite comprising:

a) a plastic film of deep-drawable

b) a non-woven fleece consisting essentially of randomly disposed partially drawn and further drawable continuous monofilaments formed by gas stream drawing and collected to form the nonwoven fleece, said continuous monofilaments having an elongation to breakage of about 100-400%, and being bonded together with a binding agent,

c) said plastic coating said fleece.

The references relied on are:

Graham et al. 2,715,591 Aug. 16, 1955 Reynolds 3,158,525 Nov. 24, 1964

Claims 1 and 5 to 8 stand rejected under 35 U.S.C. 102 as anticipated by Graham et al. We will not sustain this rejection. In our opinion these claims are not fully met by Graham et al. The claims recite the filaments as "partially drawn" before being coated with a plastic filament. Not only does Graham et al. not teach this but, as recognized by the Examiner, Graham et al. teach the use of undrawn fibers. The examiner's arguments that appellant's claims are sufficiently broad to encompass essentially no partial drawing, or that a routineer would expect some orientation in the fibers from handling are not deemed to be per-[1] suasive. We believe that the routineer would construe "partial drawing" to mean an intentional, positive act over and above any incidental elongation arising out of normal handling of the filaments.

Claims 2, 3 and 9 to 12 stand rejected under 35 U.S.C. 103 as unpatentable over Graham et al. in view of Reynolds. We do not agree with this rejection.

[2] Reynolds teaches neither partial nor complete orientation of filaments in the film matrix. More importantly however, Reynolds cannot properly be combined with Graham et al. relative to the employment of continuous monofilaments, since to do so would destroy that on which the invention of Graham et al. is based, namely, the use of very short fibers. We will not sustain this rejection.

[3] Claims 9 to 12 were further rejected under 35 U.S.C. 112, presumably the second paragraph, as being "improper" product-by-process claims. We do not agree with this rejection.

The issue raised by the examiner is not "whether product-by-process claims are ever proper in this or any application, but whether they are proper when the product can be described without reference to the process." (Answer, page 4).

It is apparently the examiner's position that the instant composites can be defined apart from the method by which the fleece thereof is made in view of claim 1. Claim 1, however, is in itself a product-by-process claim in view of the process limitation "partially drawn".

In any event, assuming that the fleece of appellant's composite is capable of being defined apart from the method by which it is made, we nevertheless believe a product-by-process type claim may properly be used by appellant.

We recognize that the M.P.E.P. provides in Section 706.03(e) (3rd Ed., Rev. 39, 1974):

"Applicant must * * * make a showing that the product cannot be described except by reference to the process of making it. * * * Accordingly both product claims described by characteristics and product-by-process claims concurrently are inconsistent."

Our reviewing Court has made it plain that if an applicant is claiming what he regards as his invention (a point not here in issue), there is only one basic ground for rejecting a claim under the second paragraph of Section 112, namely, the language employed does not set out and circumscribe a particular area sought to be covered with a reasonable degree of precision and certainty. See e.g., In re Moore, 58 CCPA 1042, 439 F.2d 1232, 169 USPQ 236, 238 (1971); In re Swinehart, 58 CCPA 1027, 439 F.2d 210, 169 USPQ 226, 229 (1971).

Our reviewing Court has also made it plain that:

"* * * a product-by-process claim, does not inherently conflict with the second paragraph of 35 U.S.C. 112." In re Brown, 59 CCPA 1036, 459 F.2d 531, 173 USPQ 685 (1972).

See also In re Luck, 476 F.2d 650, 177 USPQ 523 (CCPA 1973). In In re Steppan, 55 CCPA 791, 394 F.2d 1013, 156 USPQ 143 (1967), the Court states:

"The problem, in essence, is thus one of determining who shall decide how best to state what the invention is. By statute, 35 USC 112, Congress has placed no limitations on how an applicant claims his invention, so long as the specification concludes with claims which particularly point out and distinctly claim that invention."

See also In re Pilkington, 56 CCPA 1237, 411 F.2d 1345, 162 USPQ 145 (1969).

The examiner has not indicated, nor do we find, anything vague and indefinite about the language of claims 9 through 12. Accordingly, we see no basis for rejecting claims 9 through 12 as being drawn to so-called improper product-by-process claims.

[4] We recognize that the position we take is inconsistent with that portion of the M.P.E.P. quoted above. However, we are constrained to follow the ruling of our reviewing court (CCPA) with which the manual is at variance on this point. We will not sustain the rejection.

The decision of the Examiner is reversed.

McKelvey, Acting Examiner in Chief, concurring

I agree with the disposition of each rejection and all that is stated in the principal opinion. In connection with our decision reversing the examiner's rejection of claims 9 through 12 as being so-called "improper" product-by-process claims, I wish to add the following observations.

In fairness, it must be recognized that in making the rejection, the examiner was following guidelines provided to him via the Manual of Patent Examining Procedure and, specifically, that portion of the Manual quoted in the principal opinion. However, as was pointed out in Ex parte Schwarze, 151 USPQ 426, 1966 C.D. 10 (Bd.App. 1966):

"The Manual of Patent Examining Procedure merely provides guidelines for examiners in the Patent Office. It does not replace, and is subservient to, applicable statutes, Rules of Practice, and prior decisions."

As I understand today's decision, this Board is holding, in effect, that the portion of the Manual quoted in the principal opinion is inconsistent with 35 U.S.C. 112, second paragraph, and, therefore, does not accurately state the law. With such a holding I am in complete agreement. Based on this decision, it follows that the quoted portion of the Manual is no longer viable. It also follows that an applicant may, if he chooses to do so, claim a composite in terms of a "product-by-process," provided the claim is definite, notwithstanding the fact the product might be capable of being claimed by reference to its characteristics.

Patent and Trademark Office Trademark Trial and Appeal Board

In re Edward Weck & Company, Inc.

Decided Apr. 17, 1975

TRADEMARKS

Marks and names subject to ownership — Descriptive — Particular marks (§67.5081)

"Dermaclip" is merely descriptive of devices for clamping skin together during operation. Hauck, Ansorge, Begler & Krentz, New York, N. Y., for applicant.

[Editor's Note: This decision was designated by the Board to appear in digest form only.] Application for registration of trademark of Edward Weck & Company, Inc., Serial No. 431,869. Decision of Examiner of Trademarks refusing registration affirmed by decision (Leach, Waldstreicher, and Lefkowitz, Members) holding that applicant's "Dermaclip" is merely descriptive of devices for clamping skin together during operation.

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